HYGIENETECH
Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
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April 3, 2009

State of California
Board of Equalization
450 N Street
Sacramento, California 94279

Document No. 20903001.2

Attention: David Gau

Regarding: 9Th Floor Flood

Dear Mr. Gau:

On March 22, 2009, a water intrusion episode occurred on the 9th Floor of the California State Board of Equalization (BOE) building and subsequently flooded portions of the lower eight floors, particularly the areas in and surrounding the northwestern stairwell. Some time after the flood, the lower portion of the walls surround the northwestern stairwell access door on the 9th Floor was removed by Department of General Services (DGS) representatives to facilitate drying and a temporary plastic barrier was established. Additionally, air blowers and high efficiency particulate air (HEPA) scrubbers were placed within the barrier to aid in the drying process. On March 24, 2009, DGS's consultant, BioMax, indicated that visible suspect fungal growth was observed on surfaces where the wall cuts had been made. Those wall openings were immediately sealed with plastic sheeting and adhesive tape. On March 25, 2009, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited fungal growth exposure assessment survey on the 9th Floor in order to determine the status of the floor for fungal spore exposure potentials prior to it being re-occupied by BOE staff. Varying surface samples were also collected from the 19th Floor for comparison purposes. The survey findings, along with the analytical data, conclusions, and recommendations appear below.

On the survey date, air samples were collected for total (viable and nonviable) fungi analyses using a Zefon brand Bio-Pump™ equipped with Allergenco-D™ cassettes. Surface samples were collected for fungal growth assessment using Zefon brand Bio-Tape™ surface samplers. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. The airborne and surface fungi assessment analytical data with supporting and background information appear in the enclosed table.

As presented in Table 20903001-1005, the airborne spore count data recorded showed common spore types outdoors such as ascospores, basidiospores, *Botrytis*, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, *Oidium*, and/or smuts, with basidiospores predominating in both samples collected. In the indoor areas tested, the data showed that with one exception, low airborne concentrations of common fungal spores that included one or more of the following: basidiospores,

Botrytis, colorless spores typical of *Penicillium* and *Aspergillus* species, other brown, rusts, smuts, *Torula*, and/or *Ulocladium*. The exception involved the sample collected near Column N22, where a low level of airborne *Stachybotrys* was detected.

The surface assessment data, as presented in Table 20903001-1004, involving the samples collected from various cubicle surfaces throughout the 9th and 19th floors indicated that with one exception, no evidence of fungal growth or above-background levels of loose fungal spores were detected on those surfaces. The only exception was a surface sample collected from a computer monitor surface near Column N20, where loose *Stachybotrys* spores were found. Additionally, the surface assessment data in Table 20903001-1003 indicated fungal growth involving *Alternaria*, *Chaetomium*, and/or *Ulocladium* within the open wall cavities.

Based on observations and the available analytical data, HygieneTech recommended that detail cleaning be performed using the appropriate methods on all exposed surfaces within the 9th Floor barrier and extend to include all exposed surface 30 feet beyond the barrier boundaries. We understand that at the time of this report, such detail cleaning has been performed a DGS contractor and HygieneTech has collected air and surface samples from the affected area to show that such cleaning was performed successfully. A discussion of the post cleaning sampling will be presented under a separate cover.

Be advised that the data provided in this report only represent limited fungal exposure potentials that existed at the time the survey was performed and at the precise sample locations indicated, the latter of which were selected based on the available background information provided. Note that fungal exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the survey.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: State of California
Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 20903001-1003
SURFACE FUNGAL GROWTH POTENTIALS
9TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 25, 2009

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20903001-TL578CL	9th Floor; northern hallway; southern partition wall cavity; about five feet east of drinking fountain; approximately two inches above floor; from reverse side of cavity gypsum board	Moderate fibers Light particulates Very light dander	Trace	Trace *Alternaria* Trace *Ulocladium*	Few *Alternaria* Trace *Bipolaris/ Drechslera* group Trace *Ulocladium*	Fungal growth
20903001-TL582	9th Floor; northern hallway; Men's Restroom drinking fountain area; eastern partition wall cavity; about center; approximately two inches above floor; from reverse side of cavity gypsum board	Moderate fibers Moderate particulates Very light dander	Trace	Few *Ulocladium* Trace *Chaetomium*	Numerous *Ulocladium* Trace *Alternaria* Trace *Chaetomium* Trace *Cladosporium* Trace *Penicillium/ Aspergillus* species	Fungal growth

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as none, trace, few, numerous, and massive.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: State of California
Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 20903001-1004
SURFACE FUNGAL GROWTH POTENTIALS
9TH AND 19TH FLOORS
SACRAMENTO, CALIFORNIA
MARCH 25, 2009

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20903001-TL550CL	9th Floor; within containment; Column N21 area; fax center 101-102; southern cubicle partition; from top horizontal surface of plastic	Moderate	Very few	None	None	Background
20903001-TL551CL	9th Floor; within containment; Column N21 area; sort center 99-100; Dell computer; at southern desk; from top horizontal surface of plastic	Light	Very few	None	None	Background
20903001-TL552CL	9th Floor; within containment; Column N21 area; fax center 101-102; northern desk; from top horizontal surface of plastic	Moderate	Very few	None	None	Background
20903001-TL553CL	9th Floor; within containment; Column N21 area; cubicle located approximately ten feet south of Column N21; M. Everson team 2 shelving; from top horizontal surface of metal	Moderate	Very few	None	None	Background
20903001 TL554CL	9th Floor; within containment; Column N21 area; cubicle located about 10 feet south of Column N21; middle separating cubicle partition; from top horizontal surface of metal	Moderate	Very few	None	None	Background
20903001-TL555CL	9th Floor; within containment; Column N22 area; Taxpayer Record Center; priority file area; bottom shelf; from horizontal surface of metal	Light	Very few	None	None	Background

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

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APPENDIX A

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TABLE 20903001-1004
SURFACE FUNGAL GROWTH POTENTIALS
9TH AND 19TH FLOORS
SACRAMENTO, CALIFORNIA
MARCH 25, 2009

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20903001-TL556CL	9th Floor; within containment; Column N22 area; Taxpayer Record Center; Station 60; top shelf; from horizontal surface of metal	Light	Very few	None	None	Background
20903001-TL557CL	9th Floor; within containment; Column N22 area; Cubicle 096; northwestern file cabinet; from top horizontal surface of metal	Moderate	Very Few	None	None	Background
20903001-TL558CL	9th Floor; within containment; Column N22 area; Cubicle 108; file cabinet at eastern side; from top horizontal surface of metal	Heavy	Very Few	None	None	Background
20903001-TL559CL	9th Floor; within containment; Column N22; Cubicle 107; Dell monitor; from top horizontal surface of plastic	Moderate	Very Few	None	None	Background
20903001-TL560CL	9th Floor; within containment; Column N21 area; Cubicle 106; Dell computer CPU; from top horizontal surface of plastic	Heavy	Very Few	None	None	Background
20903001-TL561CL	9th Floor; within containment; Column N21 area; Cubicle 116; northern desk; about center; from horizontal surface of plastic	Light	Very Few	None	None	Background
20903001-TL562CL	9th Floor; within containment; Column N21 area; Cubicle 104; Sharp calculator; from top horizontal surface of plastic	Light	Very Few	None	None	Background

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

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TABLE 20903001-1004
SURFACE FUNGAL GROWTH POTENTIALS
9TH AND 19TH FLOORS
SACRAMENTO, CALIFORNIA
MARCH 25, 2009

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20903001-TL563CL	9th Floor; within containment; Column N21 area; Cubicle 111; HP printer; from top horizontal surface of plastic	Light	Very Few	None	None	Background
20903001-TL564CL	9th Floor; within containment; Column N21 area; Cubicle 110; Dell monitor; from top horizontal surface of plastic	Light	Very Few	None	None	Background
20903001-TL565CL	9th Floor; Column L22 area; Cubicle 92; northern cubicle partition; from top horizontal surface of plastic	Light	Very Few	None	None	Background
20903001-TL566CL	9th Floor; Column M22 area; Cubicle 087; northern desk; about center; from horizontal surface of plastic	Light	Very Few	None	None	Background
20903001-TL567CL	9th Floor; Column M22 area; Cubicle 086; Dell monitor; from top horizontal surface of plastic	Moderate	Very Few	None	None	Background
20903001-TL568CL	9th Floor; Column K22 area; Cubicle 078; file cabinet along southern partition wall at hallway; from top horizontal surface of metal	Heavy	Very Few	None	None	Background
20903001-TL569CL	9th Floor; Column K21 area; Cubicle 062; Dell speaker; from top horizontal surface of plastic	Light	Very Few	None	None	Background
20903001-TL570CL	9th Floor; Column K20 area; Cubicle 54; small file cabinet at eastern end; from top horizontal surface of metal	Heavy	Very Few	None	None	Background

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

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TABLE 20903001-1004
SURFACE FUNGAL GROWTH POTENTIALS
9TH AND 19TH FLOORS
SACRAMENTO, CALIFORNIA
MARCH 25, 2009

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20903001-TL571CL	9th Floor; Column K19 area; Cubicle 051 southern cubicle partition; about center; from top horizontal surface of plastic	Light	Very Few	None	None	Background
20903001-TL572CL	9th Floor; Column K18 area; southeastern corner; printer station; Lexmark T642 printer; from top horizontal surface of plastic	Light	Very Few	None	None	Background
20903001-TL573CL	9th Floor; Column K19 area; Cubicle 23; sharp calculator; from top horizontal surface of plastic	Light	Very Few	None	None	Background
20903001-TL574CL	9th Floor; Column M18 area; Cubicle 153; southern cubicle partition; about center; from top horizontal surface of plastic	Light	Very Few	None	None	Background
20903001-TL575CL	9th Floor; Column N18 area; Cubicle 136; southern cubicle partition; about center; from top horizontal of plastic	Light	Very Few	None	None	Background
20903001-TL576CL	9th Floor; Column N19 area; cubicle 142; eastern desk; about center; from horizontal surface of plastic	Light	Very Few	None	None	Background
20903001-TL577CL	9th Floor; Column N20 area; Cubicle 127B; Dell monitor; from top horizontal surface of plastic	Moderate	Very Few	None	Very few *Stachybotrys* spores detected	Possible settling due to fungal growth in vicinity
20903001-TL578CL	19th Floor; Column K21 area; Cubicle 10-01; western cubicle partition; about center; from top horizontal surface of plastic	Light	Very Few	None	None	Background

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

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TABLE 20903001-1004
SURFACE FUNGAL GROWTH POTENTIALS
9TH AND 19TH FLOORS
SACRAMENTO, CALIFORNIA
MARCH 25, 2009

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20903001-TL579CL	19th Floor; Column K18 area; Cubicle 28; northern cubicle partition; about center; from top horizontal surface of plastic	Moderate	Very Few	None	None	Background
20903001-TL580CL	19th Floor; Column M18; Cubicle 126; file cabinet along western cubicle partition; from top horizontal surface of metal	Light	Very Few	None	None	Background
20903001-TL581CL	19th Floor; Column K22 area; Cubicle 061-00; western cubicle partition; about center; from top horizontal surface of plastic	Moderate	Very Few	None	None	Background
20903001-TL582	19th Floor; Column K20; Cubicle 06-02; northern cubicle partition; about center; from top horizontal surface of plastic	Light	Very Few	None	None	Background

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

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Sacramento, California 94279

TABLE 20903001-1005
AIRBORNE TOTAL FUNGI RESULTS
9TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 25, 2009

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**20903001-TM201OUTWF**	**20903001-TM202WF**	**20903001-TM203WF**	**20903001-TM204WF**
SAMPLING LOCATION/ACTIVITIES	Outdoor; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	Column M22 area; adjacent to Cubicle 93; approximately five feet above floor/Sampling activities only	Column N19; adjacent to Cubicle 144; approximately five feet above floor/Sampling activities only	Column N22 area; adjacent to Cubicle 126; approximately five feet above floor/Sampling activities only
START/STOP	7:36:00/7:41:00	7:44:00/7:49:00	7:53:00/7:58:00	8:02:00/8:07:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores	110			
Aureobasidium				
Basidiospores	6,700	210	110	53
Bipolaris/Drechslera group				
Botrytis	13			13
Chaetomium				
Cladosporium	320	53	53	
Epicoccum				
Ganoderma				
Nigrospora				
Oidium	13			
Other brown				
Penicillium/Aspergillus types				53
Rusts		27	13	27
Scopulariopsis				
Smuts (Periconia, Myxomycetes)	27		13	
Stachybotrys				13
Stemphylium				
Torula		13		
Ulocladium		13		
Unidentified ascomycetes				
Unidentified basidiomycètes				
Unidentified mitosporic fungi				
Unidentified zygomycetes				
Hyphal fragments	<13	<13	<13	<13
Background debris*	3+	1+	1+	1+
TOTAL**	7,200	320	190	160

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

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Sacramento, California 94279

TABLE 20903001-1005
AIRBORNE TOTAL FUNGI RESULTS
9TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 25, 2009

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**20903001-TM205WF**	**20903001-TM206WF**	**20903001-TM207OUTWF**	
SAMPLING LOCATION/ACTIVITIES	Column N22 area; within containment; within station 97-98; approximately five feet above floor/Sampling activities only	Column M20 area; within containment; adjacent to Cubicle 103; approximately five feet above floor/Sampling activities only	Outdoor; about 25 feet north of building; approximately five feet above ground/Normal outdoor activities	This column intentionally left blank
START/STOP	8:25:00/8:30:00	8:33:00/8:38:00	8:44:00/8:49:00	
SAMPLE TIME	5 minutes	5 minutes	5 minutes	
Alternaria				
Ascospores			110	
Aureobasidium				
Basidiospores	53		5,200	
Bipolaris/Drechslera group				
Botrytis			13	
Chaetomium				
Cladosporium		53	370	
Epicoccum				
Myrothecium				
Nigrospora				
Oidium			13	
Other brown	13			
Penicillium/Aspergillus types			640	
Rusts				
Scopulariopsis				
Smuts (Periconia, Myxomycetes)			40	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Unidentified ascomycetes				
Unidentified basidiomycètes				
Unidentified mitosporic fungi				
Unidentified zygomycetes				
Hyphal fragments	<13	<13	13	
Background debris*	1+	1+	3+	
TOTAL**	67	53	6,400	

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

BIOHYGIENE Laboratories

2200 Amapola Ct., Suite 102
Torrance, CA 90501
(310) 618-0400 (310) 618-9400 fax

FINAL REPORT: Direct Microscopic Exam Of Tape Lift Samples

PROJECT NUMBER: 20903001

Hygiene Technologies International, Inc.

Attention: Wes Frey
3127 Bowen Island St.
West Sacramento, CA 95691

LABORATORY ID NUMBER: 0903032
Received Date: March 26, 2009
Report Date: March 26, 2009

Customer Sample Number	Date of Analysis	Method	Sample Intact	Amorphous Debris	Miscellaneous Fungi/Pollen[1]	Fungi with hyphal and /or sporulating structures[2]	Loose spores/ Other comments[2]
-TL590CL	03/26/09	M102.1	Yes	Moderate fibers, Light particulates, Very light dander	Trace	Trace Alternaria, Trace Ulocladium	Few Alternaria, Trace Bipolaris/Drechslera group, Trace Ulocladium
-TL591CL	03/26/09	M102.1	Yes	Moderate fibers, Moderate particulates, Very light dander	Trace	Few Ulocladium, Trace Chaetomium	Numerous Ulocladium, Trace Alternaria, Trace Chaetomium, Trace Cladosporium, Trace Penicillium/Aspergillus types

1- Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).
2 - Quantities of fungi are graded (from least to greatest) as a percentage of coverage of the slide area examined: none (0%), trace (0 - 10%), few (10 - 40%), numerous (40 - 80%), and massive (>80%). *Single spore observed.

APPROVED: R Galleg DATE: 03.26.09
Name Randii Galleg Title: Lab Analyst

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-0370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

524946

Project Number/Purchase Order: 20903001 Date Submitted: 3-23-09

Project Contact: Wes Frey Turnaround Required: Same day rush

Lab Destination: EML Lab Contact:

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20903001-TM01WF	75L	Allergenco	total Fungi Analysis
20903001-TM02WF			
20903001-TM03WF			
20903001-TM04WF			
20903001-TM05WF			
20903001-TM06WF			
20903001-TM07WF			
20903001-TM08WF	N/A	Bridge	Qualitative surface fungal identification
20903001-FLT01WF			
20903001-BO1	N/A	bulk	Qualitative surface fungi I.D

Special Instructions:

1. Sampled by: [signature] 3-23-09 0830 Received by:
2. Relinquished by: [signature] 3-23-09 1145 Received by: [signature] 3/23/09 0845
3. Relinquished by: [signature] 3/23/09 0915 Received by: Brandon Iledan 3/23/09 0915

Please include signature, date, and time

Lab Use Only:

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

-0903032

Request For Analysis

Project Number/Purchase Order: 20903001 Date Submitted: 3/25/09

Project Contact: Chun / Wes Turnaround Required: RUSH by noon 12Pm

Lab Destination: BioHygiene Lab Contact: Rupa

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20903001-TL590CL	N/A	BioTape	M102.1
↓ -TL591CL	↓	↓	↓

Rec'd 03.26.09

Special Instructions:

1. Sampled by: [signature] 3/25/09 1445 Received by: [signature] 03.26.09 7:27A
2. Relinquished by: [signature] 3/25/09 1730 Received by: [signature] 03.26.09 9:17A (-TL591CL)
3. Relinquished by: [signature] 03.26.09 16A (-TL591CL) Received by:

Please include signature, date, and time

Lab Use Only: Completed on 03.26.09 Book=3237 p.44 (-TL590CL) RR
Completed on 03.26.09 Book 3237 p. 38 (-TL591CL) RR

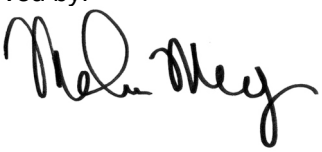
EMLab P&K

Report for:

Mr. Wes Frey
Hygiene Technologies International, Inc.: Northern California
3127 Bowen Island Street
West Sacramento, CA 95691

Regarding: Project: 20903001
EML ID: 525979

Approved by:



Lab Manager
Malcolm Moody

Dates of Analysis:
Direct microscopic exam (Qualitative): 03-25-2009
Spore trap analysis: 03-25-2009

Project SOPs: Direct microscopic exam (Qualitative) (I100005), Spore trap analysis (I100000)

EMLab P&K
3800 Watt Ave., Suite 145, Sacramento, CA 95821
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Wes Frey
Re: 20903001

Date of Sampling: 03-25-2009
Date of Receipt: 03-25-2009
Date of Report: 03-25-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20903001-TM201OUTWF		20903001-TM202WF		20903001-TM203WF		20903001-TM204WF	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2326640-1		2326641-1		2326642-1		2326643-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*	2	110						
Aureobasidium								
Basidiospores*	126	6,700	4	210	2	110	1	53
Bipolaris/Drechslera group								
Botrytis	1	13					1	13
Chaetomium								
Cladosporium	6	320	1	53	1	53		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium	1	13						
Other brown								
Penicillium/Aspergillus types†							1	53
Pithomyces								
Rusts*			2	27	1	13	2	27
Smuts*, Periconia, Myxomycetes*	2	27			1	13		
Stachybotrys							1	13
Stemphylium								
Torula			1	13				
Ulocladium			1	13				
Zygomycetes								
Background debris (1-4+)††	3+		1+		1+		1+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	970		13		13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORE/m3		7,200		320		190		160

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.
The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
‡ A "Version" greater than 1 indicates amended data.
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
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(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Wes Frey
Re: 20903001

Date of Sampling: 03-25-2009
Date of Receipt: 03-25-2009
Date of Report: 03-25-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20903001-TM205WF		20903001-TM206WF		20903001-TM207OUTWF	
Comments (see below)	None		None		None	
Lab ID-Version‡:	2326644-1		2326645-1		2326646-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Arthrinium						
Ascospores*					2	110
Aureobasidium						
Basidiospores*	1	53			98	5,200
Bipolaris/Drechslera group						
Botrytis					1	13
Chaetomium						
Cladosporium			1	53	7	370
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium					1	13
Other brown	1	13				
Other colorless						
Penicillium/Aspergillus types†					12	640
Pithomyces						
Rusts*						
Smuts*, Periconia, Myxomycetes*					3	40
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+		1+		3+	
Hyphal fragments/m3	< 13		< 13		13	
Pollen/m3	13		< 13		2,500	
Skin cells (1-4+)	< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORE/m3		67		53		6,400

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

‡ A "Version" greater than 1 indicates amended data.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Re: 20903001

Date of Sampling: 03-25-2009
Date of Receipt: 03-25-2009
Date of Report: 03-25-2009

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 20903001-TM201OUTWF

Fungi Identified	Outdoor data	Typical Outdoor Data by Date† Month: March				Typical Outdoor Data by Location‡ State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	27	200	39	7	27	210	58
Bipolaris/Drechslera group	-	7	13	120	11	7	13	120	13
Chaetomium	-	7	13	130	9	7	13	120	19
Cladosporium	320	27	270	3,800	89	53	640	6,600	97
Curvularia	-	7	13	200	7	7	13	220	7
Nigrospora	-	7	13	120	7	7	13	170	8
Penicillium/Aspergillus types	-	20	160	1,600	79	38	210	2,500	86
Stachybotrys	-	7	13	240	3	7	13	290	5
Torula	-	7	13	180	8	7	13	150	12
Seldom found growing indoors**									
Ascospores	110	13	110	2,000	71	13	110	1,800	71
Basidiospores	6,700	13	250	5,100	88	13	210	6,800	93
Botrytis	13	7	25	210	13	7	20	200	19
Oidium	13	7	13	250	14	7	13	190	20
Rusts	-	7	13	270	16	7	13	250	28
Smuts, Periconia, Myxomycetes	27	7	27	310	53	8	40	480	70
TOTAL SPORES/M3	7,183								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Re: 20903001

Date of Sampling: 03-25-2009
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Date of Report: 03-25-2009

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 20903001-TM207OUTWF

Fungi Identified	Outdoor data	Typical Outdoor Data by Date† Month: March				Typical Outdoor Data by Location‡ State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	27	200	39	7	27	210	58
Bipolaris/Drechslera group	-	7	13	120	11	7	13	120	13
Chaetomium	-	7	13	130	9	7	13	120	19
Cladosporium	370	27	270	3,800	89	53	640	6,600	97
Curvularia	-	7	13	200	7	7	13	220	7
Nigrospora	-	7	13	120	7	7	13	170	8
Penicillium/Aspergillus types	640	20	160	1,600	79	38	210	2,500	86
Stachybotrys	-	7	13	240	3	7	13	290	5
Torula	-	7	13	180	8	7	13	150	12
Seldom found growing indoors**									
Ascospores	110	13	110	2,000	71	13	110	1,800	71
Basidiospores	5,200	13	250	5,100	88	13	210	6,800	93
Botrytis	13	7	25	210	13	7	20	200	19
Oidium	13	7	13	250	14	7	13	190	20
Rusts	-	7	13	270	16	7	13	250	28
Smuts, Periconia, Myxomycetes	40	7	27	310	53	8	40	480	70
TOTAL SPORES/M3	6,386								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

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Re: 20903001

Date of Sampling: 03-25-2009
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Date of Report: 03-25-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20903001-TM201OUTWF:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Ascospores	110	13 - 150 - 4,400	76
Basidiospores	6,700	13 - 310 - 15,000	91
Botrytis	13	7 - 17 - 230	11
Cladosporium	320	27 - 530 - 8,800	94
Oidium	13	7 - 13 - 230	15
Penicillium/Aspergillus types	ND	27 - 210 - 2,500	81
Smuts, Periconia, Myxomycetes	27	7 - 40 - 820	69
Total	7,183		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 20903001-TM202WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 4 Result: 4.2200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.2500 Critical value: 0.5833 Outside Similar: No	Score: 110 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	210
Cladosporium	53
Rusts	27
Torula	13
Ulocladium	13
Total	316

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Re: 20903001

Date of Sampling: 03-25-2009
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Date of Report: 03-25-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20903001-TM203WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 4.2200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.6000	dF: 7 Result: 0.6071 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	110
Cladosporium	53
Rusts	13
Smuts, Periconia, Myxomycetes	13
Total	189

Location: 20903001-TM204WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 4.2200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: -0.2292 Critical value: 0.5833 Outside Similar: No	Score: 121 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Botrytis	13
Penicillium/Aspergillus types	53
Rusts	27
Stachybotrys	13
Total	159

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20903001-TM205WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 4.2200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.2946 Critical value: 0.6786 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Basidiospores				53
Other brown				13
Total				66

Location: 20903001-TM206WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 4.2200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.5571 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Cladosporium				53
Total				53

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20903001-TM207OUTWF:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Ascospores	110	13 - 150 - 4,400	76
Basidiospores	5,200	13 - 310 - 15,000	91
Botrytis	13	7 - 17 - 230	11
Cladosporium	370	27 - 530 - 8,800	94
Oidium	13	7 - 13 - 230	15
Penicillium/Aspergillus types	640	27 - 210 - 2,500	81
Smuts, Periconia, Myxomycetes	40	7 - 40 - 820	69
Total	6,386		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 20903001-TM202WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 4 Result: 4.2200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.1333 Critical value: 0.5515 Outside Similar: No	Score: 110 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	210
Cladosporium	53
Rusts	27
Torula	13
Ulocladium	13
Total	316

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20903001-TM203WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 4.2200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.4048 Critical value: 0.6190 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	110
Cladosporium	53
Rusts	13
Smuts, Periconia, Myxomycetes	13
Total	189

Location: 20903001-TM204WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 4.2200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.2458 Critical value: 0.5833 Outside Similar: No	Score: 121 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	53
Botrytis	13
Penicillium/Aspergillus types	53
Rusts	27
Stachybotrys	13
Total	159

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20903001-TM205WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 4.2200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.2976 Critical value: 0.6190 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Basidiospores				53
Other brown				13
Total				66

Location: 20903001-TM206WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 4.2200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.4464 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Cladosporium				53
Total				53

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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3800 Watt Ave., Suite 145, Sacramento, CA 95821
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20903001

Date of Sampling: 03-25-2009
Date of Receipt: 03-25-2009
Date of Report: 03-25-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Re: 20903001

Date of Sampling: 03-25-2009
Date of Receipt: 03-25-2009
Date of Report: 03-25-2009

MoldSCORE™: Spore Trap Report

Outdoor Sample: 20903001-TM201OUTWF

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		ND	< 13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		6	320
Curvularia		ND	< 13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		ND	< 13
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores††		2	110
Basidiospores††		126	6,700
Botrytis		1	13
Oidium		1	13
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes††		2	27
Total			**7,183**

Location: 20903001-TM202WF

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		1	13		105
Ulocladium		1	13		105
Seldom found growing indoors**					
Ascospores††		ND	< 13		100
Basidiospores††		4	210		100
Rusts		2	27		111
Smuts, Periconia, Myxomycetes††		ND	< 13		100
Total			**316**	**Final MoldSCORE**	**110**

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Re: 20903001

Date of Sampling: 03-25-2009
Date of Receipt: 03-25-2009
Date of Report: 03-25-2009

MoldSCORE™: Spore Trap Report

Location: 20903001-TM203WF

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores††		ND	< 13		100
Basidiospores††		2	110		100
Rusts		1	13		105
Smuts, Periconia, Myxomycetes††		1	13		102
Total			**189**	**Final MoldSCORE**	**103**

Location: 20903001-TM204WF

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		108
Stachybotrys		1	13		121
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores††		ND	< 13		100
Basidiospores††		1	53		100
Botrytis		1	13		105
Rusts		2	27		111
Smuts, Periconia, Myxomycetes††		ND	< 13		100
Total			**159**	**Final MoldSCORE**	**121**

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Re: 20903001

Date of Sampling: 03-25-2009
Date of Receipt: 03-25-2009
Date of Report: 03-25-2009

MoldSCORE™: Spore Trap Report

Location: 20903001-TM205WF

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores††		ND	< 13		100
Basidiospores††		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes††		ND	< 13		100
Total			**66**	**Final MoldSCORE**	**105**

Location: 20903001-TM206WF

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores††		ND	< 13		100
Basidiospores††		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes††		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**103**

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C/O: Mr. Wes Frey
Re: 20903001

Date of Sampling: 03-25-2009
Date of Receipt: 03-25-2009
Date of Report: 03-25-2009

MoldSCORE™: Spore Trap Report

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

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Re: 20903001

Date of Sampling: 03-25-2009
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Date of Report: 03-25-2009

MoldSCORE™: Spore Trap Report

Outdoor Sample: 20903001-TM207OUTWF

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		ND	< 13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		7	370
Curvularia		ND	< 13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		12	640
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores††		2	110
Basidiospores††		98	5,200
Botrytis		1	13
Oidium		1	13
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes††		3	40
Total			**6,386**

Location: 20903001-TM202WF

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		1	13		105
Ulocladium		1	13		105
Seldom found growing indoors**					
Ascospores††		ND	< 13		100
Basidiospores††		4	210		100
Rusts		2	27		111
Smuts, Periconia, Myxomycetes††		ND	< 13		100
Total			**316**	**Final MoldSCORE**	**110**

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MoldSCORE™: Spore Trap Report

Location: 20903001-TM203WF

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores††		ND	< 13		100
Basidiospores††		2	110		100
Rusts		1	13		105
Smuts, Periconia, Myxomycetes††		1	13		102
Total			**189**	**Final MoldSCORE**	**103**

Location: 20903001-TM204WF

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		106
Stachybotrys		1	13		121
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores††		ND	< 13		100
Basidiospores††		1	53		100
Botrytis		1	13		105
Rusts		2	27		111
Smuts, Periconia, Myxomycetes††		ND	< 13		100
Total			**159**	**Final MoldSCORE**	**121**

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Re: 20903001

Date of Sampling: 03-25-2009
Date of Receipt: 03-25-2009
Date of Report: 03-25-2009

MoldSCORE™: Spore Trap Report

Location: 20903001-TM205WF

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores††		ND	< 13		100
Basidiospores††		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes††		ND	< 13		100
Total			**66**	**Final MoldSCORE**	**105**

Location: 20903001-TM206WF

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores††		ND	< 13		100
Basidiospores††		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes††		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**103**

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MoldSCORE™: Spore Trap Report

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‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Wes Frey
Re: 20903001

Date of Sampling: 03-25-2009
Date of Receipt: 03-25-2009
Date of Report: 03-25-2009

DIRECT MICROSCOPIC EXAMINATION REPORT
(Wet Mount)

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 2326607-1: Tape sample 20903001-TL550CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2326608-1: Tape sample 20903001-TL551CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326609-1: Tape sample 20903001-TL552CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2326610-1: Tape sample 20903001-TL553CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2326611-1: Tape sample 20903001-TL554CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2326612-1: Tape sample 20903001-TL555CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326613-1: Tape sample 20903001-TL556CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326614-1: Tape sample 20903001-TL557CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2326615-1: Tape sample 20903001-TL558CL				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2326616-1: Tape sample 20903001-TL559CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2326617-1: Tape sample 20903001-TL560CL				
Heavy	Very few	None	None	Normal trapping

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 2326618-1: Tape sample 20903001-TL561CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326619-1: Tape sample 20903001-TL562CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326620-1: Tape sample 20903001-TL563CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326621-1: Tape sample 20903001-TL564CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326622-1: Tape sample 20903001-TL565CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326623-1: Tape sample 20903001-TL566CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326624-1: Tape sample 20903001-TL567CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2326625-1: Tape sample 20903001-TL568CL				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2326626-1: Tape sample 20903001-TL569CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326627-1: Tape sample 20903001-TL570CL				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2326628-1: Tape sample 20903001-TL571CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326629-1: Tape sample 20903001-TL572CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326630-1: Tape sample 20903001-TL573CL				
Light	Very few	None	None	Normal trapping

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 2326631-1: Tape sample 20903001-TL574CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326632-1: Tape sample 20903001-TL575CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326633-1: Tape sample 20903001-TL576CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326634-1: Tape sample 20903001-TL577CL				
Moderate	Very few	None	Very few *Stachybotrys* spores detected.	Mold growth in vicinity?
Lab ID-Version: 2326635-1: Tape sample 20903001-TL578CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326636-1: Tape sample 20903001-TL579CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2326637-1: Tape sample 20903001-TL580CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2326638-1: Tape sample 20903001-TL581CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2326639-1: Tape sample 20903001-TL582CL				
Light	Very few	None	None	Normal trapping

‡ A "Version" greater than 1 indicates amended data.

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Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
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525979

Request For Analysis

Project Number/Purchase Order: 2090300 1 Date Submitted: 3/25/09

Project Contact: Wes / Chun Turnaround Required: RUSH SAME DAY ??

Lab Destination: EMLab P&K Lab Contact: Justin

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
2090300-TL550CL	N/A	Retape	Surface Fungal ID (qualitative)
-TL551CL			
-TL552CL			
-TL553CL			
-TL554CL			
-TL555CL			
-TL556CL			
-TL557CL			
-TL558CL			
-TL559CL			
-TL560CL			
-TL561CL			
-TL562CL			
-TL563CL			
-TL564CL			
-TL565CL			

Special Instructions:

1. Sampled by: [signature] 3/24/09 0100 Received by:
2. Relinquished by: [signature] 3/24/09 10:35 Received by: [signature] 3/25/09 7AM
3. Relinquished by: Received by:

Please include signature, date, and time

Lab Use Only:

HYGIENE TECH
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 160
Torrance, California 90503-1640
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

525979

Request For Analysis

Project Number/Purchase Order: 20903001 Date Submitted: 3/25/09

Project Contact: Wes Frey / Chun Lee Turnaround Required: RUSH Same Day

Lab Destination: Emlab Park Lab Contact: Justin

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20903001 - TL566CL	N/A	Bio Tape	Surface Fungal ID (Qualitative)
- TL567CL			
- TL568CL			
- TL569CL			
- TL570CL			
- TL571CL			
- TL572CL			
- TL573CL			
- TL574CL			
- TL575CL			
- TL576CL			
- TL577CL			
- TL578CL			
- TL579CL			
- TL580CL			
- TL581CL			

Special Instructions:

1. Sampled by: 3/25/09 10:20h Received by:
2. Relinquished by: 3/25/09 10:25 Received by: 3/25/09 11AM
3. Relinquished by: Received by:

Please include signature, date, and time

Lab Use Only:

Hygiene Technologies International, Inc.

3525 Del Amo Boulevard, Suite 180
Torrance, California 90503-1613
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

525979

Request For Analysis

Project Number/Purchase Order: 20903001 Date Submitted: 3/25/09

Project Contact: Wes Frey / Chun Lam Turnaround Required: Rush Same day

Lab Destination: EM Lab Park Lab Contact: Justin

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20903001 - TL 5829	N/A	Bio Tape	Surface Fungal ID (Qualitative)
-TM201OUTWF	75L	Allergene D	Total Mold ID
-TM202INWF			
-TM203WF			
-TM204WF			
-TM205WF			
-TM206WF			
-TM207OUTWF			

Special Instructions:

1. Sampled by: [signature] 3/25/09 1D300
2. Relinquished by: [signature] 3/25/09 1D:35 Received by: [signature] 3/25/09 11AM
3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

Lab Use Only: